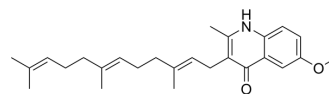


## Mtb-cyt-bd oxidase-IN-2

Cat. No.:	HY-151549
CAS No.:	1463475-67-3
Molecular Formula:	C <sub>26</sub> H <sub>35</sub> NO <sub>2</sub>
Molecular Weight:	393.56
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Mtb-cyt-bd oxidase-IN-2 is an inhibitor of Mycobacterium tuberculosis cytochrome bd oxidase (Mtb cyt-bd oxidase) with an IC <sub>50</sub> value of 0.67 μM. Mtb-cyt-bd oxidase-IN-2 inhibits the growth of Mycobacterium tuberculosis with a MIC value of 256 μM. Mtb-cyt-bd oxidase-IN-2 can be used for the research of infection <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 0.67 μM (Mtb cyt-bd oxidase) <sup>[1]</sup>
<b>In Vitro</b>	Mtb-cyt-bd oxidase-IN-2 (0-20 μM) shows inhibitory effect to Mtb cyt-bd oxidase with an IC <sub>50</sub> value of 0.67 μM <sup>[1]</sup> . Mtb-cyt-bd oxidase-IN-2 inhibits the growth of Mycobacterium tuberculosis and Mycobacterium smegmatis with MIC values of 256 μM and 512 μM, respectively. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Lawer A, et al. Synthesis and Biological Evaluation of Aurachin D Analogues as Inhibitors of Mycobacterium tuberculosis Cytochrome bd Oxidase. ACS Med Chem Lett. 2022 Sep 26;13(10):1663-1669.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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